

Serial Number: 087379046

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DEC 15 2008

TECH CENTER 1000/200

Changed a file from non-ASCII to ASCII

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

Edited a format error in the Current Application Data section, specifically:

Edited the Current Application Data section with the actual current number. The number inputted by the applicant was the prior application data; or other _____.

Added the mandatory heading and subheadings for "Current Application Data".

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

Inserted colons after headings/subheadings. Headings edited included:

Deleted extra, invalid, headings used by an applicant, specifically:

Deleted: non-ASCII "garbage" at the beginning/end of files? secretary initials/filename at end of file; page numbers throughout text; other invalid text, such as _____.

Inserted mandatory headings, specifically: _____

Corrected an obvious error in the response, specifically:

Edited identifiers where upper case is used but lower case is required, or vice versa.

Corrected an error in the Number of Sequences field, specifically:

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

Other:

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

3/1/95

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/08/737,904G DATE: 12/12/2000
 TIME: 12:20:09

Input Set : A:\Pto.amc
 Output Set: N:\CRF3\12122000\H737904G.raw

3 <110> APPLICANT: Griffith, Irwin J et al.
 5 <120> TITLE OF INVENTION: T CELL EPITOPES OF RYEGRASS POLLEN ALLERGEN
 7 <130> FILE REFERENCE: TMI-040CP3
 9 <140> CURRENT APPLICATION NUMBER: 08/737,904G
 10 <141> CURRENT FILING DATE: 1996-11-20
 12 <150> PRIOR APPLICATION NUMBER: 08/106,016
 13 <151> PRIOR FILING DATE: 1993-08-13
 15 <160> NUMBER OF SEQ ID NOS: 61
 17 <170> SOFTWARE: Patentin Ver. 2.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 1229
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Escherichia coli
 24 <220> FEATURE:
 25 <221> NAME/KEY: CDS
 26 <222> LOCATION: (40)..(942)
 28 <400> SEQUENCE: 1
 29 cgcataccct ccctcgata aacaaacgca agagcagca atg gcc gtc cag aag 54
 30 Met Ala Val Gln Lys
 31 1 5
 33 tac acg gtg gct cta ttc ctc gcc gtg gcc ctc gtg gcg ggc ccg gcc 102
 34 Tyr Thr Val Ala Leu Phe Leu Ala Val Ala Leu Val Ala Gly Pro Ala
 35 10 15 20
 37 gcc tcc tac gcc gct gac gcc ggc tac acc ccc gca gcc gcg gcc acc 150
 38 Ala Ser Tyr Ala Ala Asp Ala Gly Tyr Thr Pro Ala Ala Ala Thr
 39 25 30 35
 41 ccg gct act cct gct gcc acc ccg gct gcg gct gga ggg aag gcg acg 198
 42 Pro Ala Thr Pro Ala Ala Thr Pro Ala Ala Gly Gly Lys Ala Thr
 43 40 45 50
 45 acc gac gag caa ctg ctg gag gac gtc aac gct ggc ttc aag gca 246
 46 Thr Asp Glu Gln Lys Leu Leu Glu Asp Val Asn Ala Gly Phe Lys Ala
 47 55 60 65
 49 gcc gtg gcc gct gcc aac gcc cct ccg gcg gac aag ttc aag atc 294
 50 Ala Val Ala Ala Ala Asn Ala Pro Pro Ala Asp Lys Phe Lys Ile
 51 70 75 80 85
 53 ttc gag gcc gct ttc tcc gag tcc tcc aag ggc ctc ctc gcc acc tcc 342
 54 Phe Glu Ala Ala Phe Ser Glu Ser Ser Lys Gly Leu Leu Ala Thr Ser
 55 90 95 100
 57 gcc gcc aag gca ccc ggc ctc atc ccc aag ctc gac acc gcc tac gac 390
 58 Ala Ala Lys Ala Pro Gly Leu Ile Pro Lys Leu Asp Thr Ala Tyr Asp
 59 105 110 115
 61 gtc gcc lac aag gcc gct gag ggc gcc acc ccc gag gcc aag tac gac 438
 62 Val Ala Tyr Lys Ala Ala Glu Gly Ala Thr Pro Glu Ala Lys Tyr Asp
 63 120 125 130
 65 gcc ttc gtc act gcc ctc acc gaa gcg ctc cgc gtc atc gcc ggc gcc 486
 66 Ala Phe Val Thr Ala Leu Thr Glu Ala Leu Arg Val Ile Ala Gly Ala
 67 135 140 145

sec p. 5

RAW SEQUENCE LISTING DATE: 12/12/2000
PATENT APPLICATION: US/08/737,904G TIME: 12:20:09

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12122000\H737904G.raw

69 ctc gag gtc cac gcc gtc aag ccc gcc acc gag gag gtc cct gct gct 534
 70 Leu Glu Val His Ala Val Lys Pro Ala Thr Glu Glu Val Pro Ala Ala
 71 150 155 160 165
 73 aag atc ccc acc ggt gag ctg cag atc gtt gac aag atc gat gct gct gcc 582
 74 Lys Ile Pro Thr Gly Glu Leu Gln Ile Val Asp Lys Ile Asp Ala Ala
 75 170 175 180
 77 ttc aag atc qca gcc acc gcc qcc aac qcc qcc ccc acc aac gat aag 630
 78 Phe Lys Ile Ala Ala Thr Ala Ala Asn Ala Ala Pro Thr Asn Asp Lys
 79 185 190 195
 81 ttc acc gtc ttc gag agt gcc ttc aac aag gcc ctc aat gag tgc acg 678
 82 Phe Thr Val Phe Glu Ser Ala Phe Asn Lys Ala Leu Asn Glu Cys Thr
 83 200 205 210
 85 ggc ggc gcc tat gag acc fac aag ttc atc ccc tcc ctc gag gcc gcg 726
 86 Gly Gly Ala Tyr Glu Thr Tyr Lys Phe Ile Pro Ser Leu Glu Ala Ala
 87 215 220 225
 89 gtc aaq cag gcc tac qcc gcc acc gtc gcc qcc gcg ccc gag gtc aag 774
 90 Val Lys Gln Ala Tyr Ala Ala Thr Val Ala Ala Ala Pro Glu Val Lys
 91 230 235 240 245
 93 tac gcc gtc ttt gag gcc gcg ctg acc aag gcc atc acc gcc atg acc 822
 94 Tyr Ala Val Phe Glu Ala Ala Leu Thr Lys Ala Ile Thr Ala Met Thr
 95 250 255 260
 97 cag gca cag aag gcc ggc aaa ccc gct gcc gcc gct gcc aca ggc gcc 870
 98 Gln Ala Gln Lys Ala Gly Lys Pro Ala Ala Ala Ala Thr Gly Ala
 99 265 270 275
 101 qca acc qtt gcc acc ggc gcc gca acc qcc qcc ggt gct gcc acc 918
 102 Ala Thr Val Ala Thr Gly Ala Ala Thr Ala Ala Ala Ala Ala Thr
 103 280 285 290
 105 gcc qct gct ggt ggc tac aaa gcc tgatcagctt gctaataatac tactgaacct 972
 106 Ala Ala Ala Gly Gly Tyr Lys Ala
 107 295 300
 109 atgtatgtgc atgateccggg cggcggatggg ttttggat aattaaatctt cgttttcggt 1032
 111 tcatgcagcc qcgatcgaga qggcttqcat gcttqtaata attcaatatt tttcatttct 1092
 113 ttttgaatct gtaaatcccc atgacaagta gtgggatcaa gtcggcatgt atcacccgtt 1152
 115 atgcgagttt aacgatgggg agtttatcaa agaattttattt attaaaaaaaaaaaaaaa 1212
 117 aaaaaaaaaa aaaaaaaaaa 1229
 120 <210> SEQ ID NO: 2
 121 <211> LENGTH: 301
 122 <212> TYPE: PRT
 123 <213> ORGANISM: Escherichia coli
 125 <400> SEQUENCE: 2
 126 Met Ala Val Gln Lys Tyr Thr Val Ala Leu Phe Leu Ala Val Ala Leu
 127 1 5 10 15
 129 Val Ala Gly Pro Ala Ala Ser Tyr Ala Ala Asp Ala Gly Tyr Thr Pro
 130 20 25 30
 132 Ala Ala Ala Ala Thr Pro Ala Thr Pro Ala Ala Thr Pro Ala Ala Ala
 133 35 40 45
 135 Gly Gly Lys Ala Thr Thr Asp Glu Gln Lys Leu Leu Glu Asp Val Asn
 136 50 55 60
 138 Ala Gly Phe Lys Ala Ala Val Ala Ala Ala Asn Ala Pro Pro Ala

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/737,904G

DATE: 12/12/2000
TIME: 12:20:09

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12122000\H737904G.raw

139 65 70 75 80
141 Asp Lys Phe Lys Ile Phe Glu Ala Ala Phe Ser Glu Ser Ser Lys Gly
142 85 90 95
144 Leu Leu Ala Thr Ser Ala Ala Lys Ala Pro Gly Leu Ile Pro Lys Leu
145 100 105 110
147 Asp Thr Ala Tyr Asp Val Ala Tyr Lys Ala Ala Glu Gly Ala Thr Pro
148 115 120 125
150 Glu Ala Lys Tyr Asp Ala Phe Val Thr Ala Leu Thr Glu Ala Leu Arg
151 130 135 140
153 Val Ile Ala Gly Ala Leu Glu Val His Ala Val Lys Pro Ala Thr Glu
154 145 150 155 160
156 Glu Val Pro Ala Ala Lys Ile Pro Thr Gly Glu Leu Gln Ile Val Asp
157 165 170 175
159 Lys Ile Asp Ala Ala Phe Lys Ile Ala Ala Thr Ala Ala Asn Ala Ala
160 180 185 190
162 Pro Thr Asn Asp Lys Phe Thr Val Phe Glu Ser Ala Phe Asn Lys Ala
163 195 200 205
165 Leu Asn Glu Cys Thr Gly Gly Ala Tyr Glu Thr Tyr Lys Phe Ile Pro
166 210 215 220
168 Ser Leu Glu Ala Ala Val Lys Gln Ala Tyr Ala Ala Thr Val Ala Ala
169 225 230 235 240
171 Ala Pro Glu Val Lys Tyr Ala Val Phe Glu Ala Ala Leu Thr Lys Ala
172 245 250 255
174 Ile Thr Ala Met Thr Gln Ala Gln Lys Ala Gly Lys Pro Ala Ala Ala
175 260 265 270
177 Ala Ala Thr Gly Ala Ala Thr Val Ala Thr Gly Ala Ala Thr Ala Ala
178 275 280 285
180 Ala Gly Ala Ala Thr Ala Ala Gln Gly Gly Tyr Lys Ala
181 290 295 300
184 <210> SEQ ID NO: 3
185 <211> LENGTH: 20
186 <212> TYPE: PRT
187 <213> ORGANISM: Escherichia coli
189 <220> FEATURE:
190 <223> OTHER INFORMATION: all occurrences of Xaa=hydroxyproline
192 <400> SEQUENCE: 3
W--> 193 Ala Asp Ala Gly Tyr Thr Xaa Ala Ala Ala Ala Thr Xaa Ala Thr Xaa
194 1 5 10 15
W--> 196 Ala Ala Thr Xaa
197 20
200 <210> SEQ ID NO: 4
201 <211> LENGTH: 20
202 <212> TYPE: PRT
203 <213> ORGANISM: Escherichia coli
205 <220> FEATURE:
206 <223> OTHER INFORMATION: all occurrences of Xaa=hydroxyproline
208 <400> SEQUENCE: 4
W--> 209 Ala Thr Xaa Ala Ala Thr Pro Ala Ala Ala Thr Xaa Ala Ala Ala Gly Gly Lys
210 1 5 10 15

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/737,904G

DATE: 12/12/2000
TIME: 12:20:09

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12122000\H737904G.raw

212 Ala Thr Thr Asp
213 20
216 <210> SEQ ID NO: 5
217 <211> LENGTH: 20
218 <212> TYPE: PRT
219 <213> ORGANISM: Escherichia coli
221 <220> FEATURE:
222 <223> OTHER INFORMATION: all occurrences of Xaa -hydroxyproline
224 <400> SEQUENCE: 5
225 Ala Ala Ala Gly Gly Lys Ala Thr Thr Asp Glu Gln Lys Leu Leu Glu
226 1 5 10 15
228 Asp Val Asn Ala
229 20
232 <210> SEQ ID NO: 6
233 <211> LENGTH: 20
234 <212> TYPE: PRT
235 <213> ORGANISM: Escherichia coli
237 <400> SEQUENCE: 6
238 Glu Gln Lys Leu Leu Glu Asp Val Asn Ala Gly Phe Lys Ala Ala Val
239 1 5 10 15
241 Ala Ala Ala Ala
242 20
245 <210> SEQ ID NO: 7
246 <211> LENGTH: 16
247 <212> TYPE: PRT
248 <213> ORGANISM: Escherichia coli
250 <400> SEQUENCE: 7
251 Gly Phe Lys Ala Ala Val Ala Ala Ala Ala Asn Ala Pro Pro Ala Asp
252 1 5 10 15
255 <210> SEQ ID NO: 8
256 <211> LENGTH: 20
257 <212> TYPE: PRT
258 <213> ORGANISM: Escherichia coli
260 <400> SEQUENCE: 8
261 Asn Ala Pro Pro Ala Asp Lys Phe Lys Ile Phe Glu Ala Ala Phe Ser
262 1 5 10 15
264 Glu Ser Ser Lys
265 20
268 <210> SEQ ID NO: 9
269 <211> LENGTH: 20
270 <212> TYPE: PRT
271 <213> ORGANISM: Escherichia coli
273 <400> SEQUENCE: 9
274 Phe Glu Ala Ala Phe Ser Glu Ser Ser Lys Gly Leu Leu Ala Thr Ser
275 1 5 10 15
277 Ala Ala Lys Ala
278 20
281 <210> SEQ ID NO: 10
282 <211> LENGTH: 20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/08/737,904G

DATE: 12/12/2000
TIME: 12:20:09

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12122000\H737904G.raw

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283 <212> TYPE: PRT
284 <213> ORGANISM: Escherichia coli
285 <400> SEQUENCE: 10
287 Gly Leu Leu Ala Thr Ser Ala Ala Lys Ala Pro Gly Leu Ile Pro Lys
288 1 5 10 15
290 Leu Asp Thr Ala
291 20
294 <210> SEQ ID NO: 11
295 <211> LENGTH: 20
296 <212> TYPE: PRT
297 <213> ORGANISM: Escherichia coli
299 <400> SEQUENCE: 11
300 Pro Gly Leu Ile Pro Lys Leu Asp Thr Ala Tyr Asp Val Ala Tyr Lys
301 1 5 10 15
303 Ala Ala Glu Gly
304 20
307 <210> SEQ ID NO: 12
308 <211> LENGTH: 20
309 <212> TYPE: PRT
310 <213> ORGANISM: Escherichia coli
312 <400> SEQUENCE: 12
313 Tyr Asp Val Ala Tyr Lys Ala Ala Glu Gly Ala Thr Pro Glu Ala Lys
314 1 5 10 15
316 Tyr Asp Ala Phe
317 20
320 <210> SEQ ID NO: 13
321 <211> LENGTH: 20
322 <212> TYPE: PRT
323 <213> ORGANISM: Escherichia coli
325 <400> SEQUENCE: 13
326 Ala Thr Pro Glu Ala Lys Tyr Asp Ala Phe Val Thr Ala Leu Thr Glu
327 1 5 10 15
329 Ala Leu Arg Val
330 20
333 <210> SEQ ID NO: 14
334 <211> LENGTH: 20
335 <212> TYPE: PRT
336 <213> ORGANISM: Escherichia coli
338 <400> SEQUENCE: 14
339 Val Thr Ala Leu Thr Glu Ala Leu Arg Val Ile Ala Gly Ala Leu Glu
340 1 5 10 15
342 Val His Ala Val
343 20
346 <210> SEQ ID NO: 15
347 <211> LENGTH: 20
348 <212> TYPE: PRT
349 <213> ORGANISM: Escherichia coli
351 <400> SEQUENCE: 15
352 Ile Ala Gly Ala Leu Glu Val His Ala Val Lys Pro Ala Thr Glu Glu

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/737,904G

DATE: 12/12/2000
TIME: 12:20:10

Input Set : A:\Pto.amc
Output Set: N:\CRF3\12122000\H737904G.raw

L:193 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:193 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:193 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:196 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:196 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
M:340 Repeated in SeqNo=3
L:209 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:209 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:209 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:560 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:560 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:560 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:31
L:862 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:54
L:862 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:54
L:862 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:54
L:865 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:54
L:865 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:54
M:340 Repeated in SeqNo=54
L:1073 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:59
L:1073 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:59
L:1073 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:59
L:1076 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:59
L:1076 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:59
M:340 Repeated in SeqNo=59
L:1089 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:60
L:1089 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:60
L:1089 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60

1644

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/08/737,904G

DATE: 12/12/2000
 TIME: 12:21:09

Input Set : A:\seqlist.txt
 Output Set: N:\CRF3\12122000\H737904G.raw

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3 <110> APPLICANT: Griffith, Irwin J et al.
 5 <120> TITLE OF INVENTION: T CELL EPITOPES OF RYEGRASS POLLEN ALLERGEN
 7 <130> FILE REFERENCE: IMI-040CP3
 9 <140> CURRENT APPLICATION NUMBER: 08/737,904G
 10 <141> CURRENT FILING DATE: 1996-11-20
 12 <150> PRTOR APPLICATION NUMBER: 08/106,016
 13 <151> PRIOR FILING DATE: 1993-08-13
 15 <160> NUMBER OF SEQ ID NOS: 61
 17 <170> SOFTWARE: Patentin Ver. 2.0

ERRORED SEQUENCES

1096 <210> SEQ ID NO: 61
 1097 <211> LENGTH: 20
 1098 <212> TYPE: PRT
 1099 <213> ORGANISM: Escherichia coli
 1101 <400> SEQUENCE: 61
 1102 Ala Asp Ala Gly Tyr Thr Pro Ala Ala Ala Ala Thr Pro Ala Thr Pro
 1103 1 5 10 15
 1104 Ala Ala Thr Pro
 1105 20
 1106
 1107
 1108 1
 1109
 1110
 1111 47

Does Not Comply
 Corrected Diskette Needed

Delete end of file garbage

VERIFICATION SUMMARY
PATENT APPLICATION: US/08/737,904G

DATE: 12/12/2000
TIME: 12:21:10

Input Set : A:\seqlist.txt
Output Set: N:\CRF3\12122000\H737904G.raw

L:193 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:193 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:193 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:196 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:196 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
M:340 Repeated in SeqNo=3
L:209 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:209 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L:209 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
L:560 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:560 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:560 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:31
L:862 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:54
L:862 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:54
L:862 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:54
L:865 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:54
L:865 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:54
M:340 Repeated in SeqNo=54
L:1073 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:59
L:1073 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:59
L:1073 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:59
L:1076 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:59
L:1076 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:59
M:340 Repeated in SeqNo=59
L:1089 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:60
L:1089 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:60
L:1089 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:60
L:1108 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:61
M:332 Repeated in SeqNo=61